

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A spreading code assigning method in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having a same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system, said method comprising the steps of:

~~assigning~~ generating a common code associated with each a base station group including more than one base station as said second spreading code, wherein said second spreading code functions as an identifier of said base station group ~~or said network type in said more than one base station and in mobile stations belonging to said more than one base station; and.~~

storing said common code in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

Claim 2 (Currently Amended): A signal transmitting method in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition

period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system, said method comprising the steps of:

~~assigning~~ generating a common code associated with ~~each~~ a base station group including more than one base station as said second spreading code;

storing said common code in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group; and

transmitting a signal which is spread with said second spreading code between one of said more than one base station and a mobile station, wherein said second spreading code functions as an identifier of said base station group or said network type in said more than one base station and said mobile station.

Claim 3 (Currently Amended): A direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system, said system comprising:

a base station using said second spreading code as a common code assigned to ~~each~~ a base station group, said base station group including more than one of said base station; and

a mobile station communicating with said base station by using a signal which is spread by said second spreading code assigned to said base station,

wherein said second spreading code functions as an identifier of said base station group or said network type in said base station and said mobile station and.

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

Claim 4 (Currently Amended): A transmitter in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said transmitter assigning a common code associated with ~~each~~ a base station group including more than one base station as said second spreading code, and

said transmitter carrying out a communication using a signal spread by said second spreading code assigned to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group or said network type in a receiver that receives said signal from said transmitter and.

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

Claim 5 (Currently Amended): A receiver in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said receiver assigning a common code associated with each base station group including more than one base station as said second spreading code, and

said receiver carrying out a communication using a signal spread by said second spreading code assigned to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group or said network type in said receiver, and.

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

Claim 6 (Currently Amended): A transceiver in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first

spreading code in first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said transceiver assigning a common code associated with each base station group including more than one base station as said second spreading code, and

said transceiver carrying out a communication using a signal spread by said second spreading code assigned, to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group or said network type in said transceiver, and.

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

Claim 7 (Currently Amended): A transmitter in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a

wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said transmitter assigning a common code associated with each base station group including more than one base station or a common code associated with each network type to which said base station group belongs as said second spreading code, and

said transmitter carrying out a communication using a signal spread by said second spreading code assigned to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group or said network type in a receiver that receives said signal from said transmitter, and.

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group,

said transmitter comprising:

second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.

Claim 8 (Currently Amended): A receiver in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a

wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said receiver assigning a common code associated with each base station group including more than one base station or a common code associated with each network type to which said base station group belongs as said second spreading code, and

said receiver carrying out a communication using a signal spread by said second spreading code assigned to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group or said network type in said receiver, and.

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group,

said receiver comprising:

second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.

Claim 9 (Currently Amended): A transceiver in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a

wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said transceiver assigning a common code associated with each base station group including more than one base station or a common code associated with each network type to which said base station group belongs as said second spreading code, and

said transceiver carrying out a communication using a signal spread by said second spreading code assigned, to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group or said network type in said transceiver, and.

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group,

said transceiver comprising:

second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.